

DELAWARE CONSTRUCTION SPECIFICATION

SEEDING CS 62

1. SCOPE

The work shall consist of furnishing all labor, equipment, and materials for seeding a temporary or permanent seed mixture on the areas shown on the drawings, including mulching and anchoring of the mulch.

2. GENERAL

The seeding and other operations shall be performed at such times as specified on the drawings.

3. LIME

The limestone shall be standard ground limestone. The rate of application shall be two (2) tons per acre unless otherwise specified on the drawings. The lime shall be incorporated into the soil by disking to a depth of four (4) inches.

4. FERTILIZER

The fertilizer shall be a regular commercial fertilizer meeting the requirements of the applicable state laws and shall be in such physical condition to insure uniform application over the area to be fertilized. The rate of application shall be 1000 lbs. of fertilizer per acre having an analysis of 5-10-10 unless otherwise specified on the drawings.

5. SEED

The seed shall be delivered to the site in tagged and labeled bags to show percentage of purity and germination. The seed shall have been tested within nine months prior to the date of seeding and shall conform to the latest seed laws of the United States and the state. Species and rates of seeding shall be as specified on the drawings.

All legume seed shall be inoculated. The inoculant for treating legume seeds shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species and shall not be used later than the date indicated on the container

or as otherwise specified. A mixing medium, as recommended by the manufacturer, shall be used to bond the inoculant to the seed. Two (2) times the amount of the inoculant recommended by the manufacturer shall be used, except four (4) times the amount of inoculant recommended by the manufacturer shall be used when seed is applied by use of a hydraulic seeder. Seed shall be sown within 24 hours of treatment and shall not remain in the hydraulic seeder longer than 4 hours.

6. **PREPARATION OF SEEDBED**

The entire area to be seeded shall be reasonably smooth, firm, and free from weeds and protruding surface obstructions such as clods, stones, and roots. All rilled or washed areas shall be filled and smoothed.

7. **SEEDING AND FERTILIZING**

All areas broadcast seeded shall be lightly raked after seeding, or cultipacked. When the areas are to be seeded and fertilized with a hydroseeder, the seed and fertilizer mixture shall be applied uniformly on the surface of the soil material at such a rate that water will not accumulate thus causing runoff and uneven distribution of seed, and fertilizer. The mixture shall be agitated with water continuously during the introduction of seed and fertilizer into the hydroseeder; the agitation shall be continuous during application.

8. **MULCHING**

The required mulching shall be performed as soon as possible after seeding unless otherwise specified. The mulch shall be applied uniformly over the area. The type, rate, and methods of anchoring mulch shall be as specified on the drawings.

9. **DITCH SIDE SLOPES**

- a. **Seedbed Preparation.** All excavation performed with a trapezoidal bucket shall leave a 1/2 inch to 1 inch deep by 1/8 inch to 1/4 inch wide groove spaced 3 inches to 5 inches apart from the toe of the slope to the top of the slope. This scarification shall be parallel to the ditch bottom. When the excavation is performed with a cleanout bucket from the side of the ditch, areas that have hard, slick surfaces that seed will not adhere to, will be scarified in a manner that will produce results similar to the requirement stated level.

- b. **Liming and Fertilizing**. Liming and fertilizing are not required on ditchbanks.
- c. **Seeding**. Within 24 hours of scarification, seed shall be applied uniformly by a hydroseeder or a broadcast seeder at the rate stated on the plans.